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AMENDED SHEET



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at least partly is digested sludge which is removed from the reactor (2; 102; 202; 302).

8. A method as claimed in any one of the preceding claims, in which the organic matter is dried to a dry solids content of at least 70% by weight TS before being ground.

9. A device for producing biogas by anaerobic digestion of organic matter, characterised in that the device (1; 100; 200; 300) comprises a premixing tank (18; 118; 218; 318) for mixing ground organic matter with a liquid to a slurry with a dry solids content of 15-45% by weight TS and a feed pipe (26, 4; 126, 104; 204; 304) for feeding the slurry to a sealable, essentially gas-tight tank reactor (2; 102; 202; 302) for digesting the slurry at a dry solids content in the tank reactor (2; 102; 202; 302) of 5-10% by weight TS, said tank reactor (2; 102; 202; 302) having an agitator (10; 110) for agitating the matter in the tank reactor (2; 102; 202; 302), an inlet (4; 104; 204; 304) for slurry from the premixing tank (18; 118; 218; 318) and outlets (6, 8; 106, 108; 206, 208; 306, 308) for produced biogas and formed digested sludge.

10. A device as claimed in claim 9, in which a mill (14; 114; 214; 314) is arranged for grinding the organic matter before being introduced into the premixing tank (18; 118; 218; 318).

11. A device as claimed in claim 9 or 10, in which a supply pipe (122; 222) is arranged for feeding digested sludge from the reactor (102; 202) to the premixing tank (118; 218).